INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/22718

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : A01N 63/00; A61K 48/00						
US CL: 424/93.2 According to International Patent Classification (IPC) or to both national classification and IPC						
	S SEARCHED	mai classification and ir c				
	Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/93.2					
0.5 12						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Documentatio	m searched other than minimum documentation to the e	xtent that such documents are included in	n the neids searched			
Electronic dat	ta base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)			
Please See Co	ontinuation Sheet					
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
х	FISCHER et al. Overexpression of Sorcin in the Muri	ne Heart Modulates Cardiac	1, 6, 7, 12, 13, 14			
	Performance, Circulation; October 2000, Vol 102, No					
x	SUAREZ et al. In vivo Adenoviral Gene Transfer of S		1-7, 12-14			
X, P	Circulation November 2002 Vol 106, No. 19, Supp. p SUAREZ et al. In vivo adenoviral transfer of sorcin re	•	1-14, 24-29			
Д, Г	abnormalities of diabetic cardiomyopathy Am. J. Phys		1-14, 24-25			
	286, pages H68-H75.					
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Euroba	r documents are listed in the continuation of Box C.	See patent family annex.				
	Special categories of cited documents:	"T" later document published after the inte	metional filing date or priority date			
	•	and not in conflict with the application	but cited to understand the			
	It defining the general state of the art which is not considered to be of r relevance	principle or theory underlying the inve	ntion			
· -		"X" document of particular relevance; the considered novel or cannot be consider				
	pplication or patent published on or after the international filing date	when the document is taken alone	ed to myore an myentave such			
	at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	laimed invention cannot be			
specified		considered to involve an inventive step	p when the document is combined			
"O" documen	nt referring to an oral disclosure, use, exhibition or other means	with one or more other such document to a person skilled in the art	s' sact commitment pend covious			
"P" documen	at published prior to the international filing date but later than the	"&" document member of the same patent	family			
	date claimed		,			
Date of the actual completion of the international search		Date of mailing of the international sea	arch report			
26 34200	5 (26 05 2005)	20 JUN 2005				
26 May 2005 (26.05.2005) Name and mailing address of the ISA/US		Australia J. Care				
Mail Stop PCT, Attn: ISA/US		De Mai A	a tarel			
Commissioner for Patents		Brian Whiteman				
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (571) 272-1600	ie Ford			
	lo. (703) 305-3230	•	101			
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely.			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	ional Searching Authority found multiple inventions in this international application, as follows: continuation Sheet			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. Kemark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-14 and 24-29 Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-14 and 24-29, drawn to a method of increasing contractile in a subject comprising administering a viral vector encoding sorcin in the subject.

Group II, claim(s) 15-20, drawn to a method of identifying an agent that modulates sorcin expression in a sample.

Group III, claim(s) 21, drawn to a method of identifying an agent that modulates cardiac contractile function in a heart of a subject.

Group IV, claim(s) 22 and 23, drawn to a method of diagnosing a cardiac contractile function associated disorder in a subject.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is considered to be a method of increasing cardiac contractile function in a subject using a viral vector encoding sorcin.

The special technical feature of Group II is considered to be a method of identifying an agent that modulates sorcin expression in a sample.

The special technical feature of Group III is considered to be a method of identifying an agent that modulates cardiac contractile function in a heart of a subject.

The special technical feature of Group IV is considered to be a method of diagnosing a cardiac contractile function associated disorder in a subject.

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Continuation of B. FIELDS SEARCHED Item 3: WEST2.1, STN search terms: sorcin, viral, virus, gene therapy, cardiac, heart, diabetes, contractile				
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